

SOURCE REMOVAL REPORT BUILDING 2426 McCOY ANNEX

NAVAL TRAINING CENTER ORLANDO, FLORIDA

Unit Identification Code: N65928

Contract No.: N62467-89-D-0317/107

Prepared by:

Harding Lawson Associates 2590 Executive Center Circle, East Tallahassee, Florida 32301

Prepared for:

Department of the Navy, Southern Division Naval Facilities Engineering Command 2155 Eagle Drive North Charleston, South Carolina 29418

Nick Ugolini, Code 1843, Engineer-in-Charge

May 1999



CERTIFICATION OF TECHNICAL DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/107 are complete and accurate and comply with all requirements of this contract.

DATE:	May 2	7, 19	999

NAME AND TITLE OF CERTIFYING OFFICIAL:

John Kaiser

Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL:

Manuel Alonso, P.G.

Project Technical Lead

(DFAR 252.227-7036)

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GLOSSARY

AST aboveground storage tank

bls below land surface

FL-PRO Florida-Petroleum Residual Organics

HLA Harding Lawson Associates

OVA organic vapor analyzer

PWC Public Works Center PVC polyvinyl chloride

SAR Site Assessment Report
SRA Source Removal Activities

TRPH total recoverable petroleum hydrocarbons

USEPA U.S. Environmental Protection Agency

yd³ cubic yard

1.0 INTRODUCTION

1.1 SITE LOCATION AND BACKGROUND INFORMATION. Harding Lawson Associates (HLA), was contracted by Southern Division, Naval Facilities Engineering Command to document the source removal activities (SRA) associated with petroleum contamination at Building 2426. SRAs included excavation and disposal of petroleum-impacted soil from the former heating oil tank. Building 2426 is located in the southeast section of the Main Base, Naval Training Center (NTC) in Orlando, Orange County, Florida (Figure 1-1).

Building 2426 (Bachelor Officers Quarters) is located on Iwo Jima Street in the east-central part of the Main Base. Figure 1-1 shows the site location and the surrounding area. The site lies within the northwest part of Section 21, Township 22 South and Range 30 east.

Building 2426 is a one-story building constructed of concrete block with a peaked wood-frame roof covered with shingles. This 2,121 square-foot building was constructed in 1943 and housed up to four visiting Navy officers. Based upon a review of aerial photographs and site records, the area was unimproved woods and open fields prior to the building construction.

One petroleum storage tank system was operational at Building 2426. The system was located at the east side of the building and consisted of a 265-gallon aboveground storage tank (AST) and associated piping that stored and provided heating fuel for the building's heating system. The location of the former petroleum storage tank system is shown on Figure 1-2.

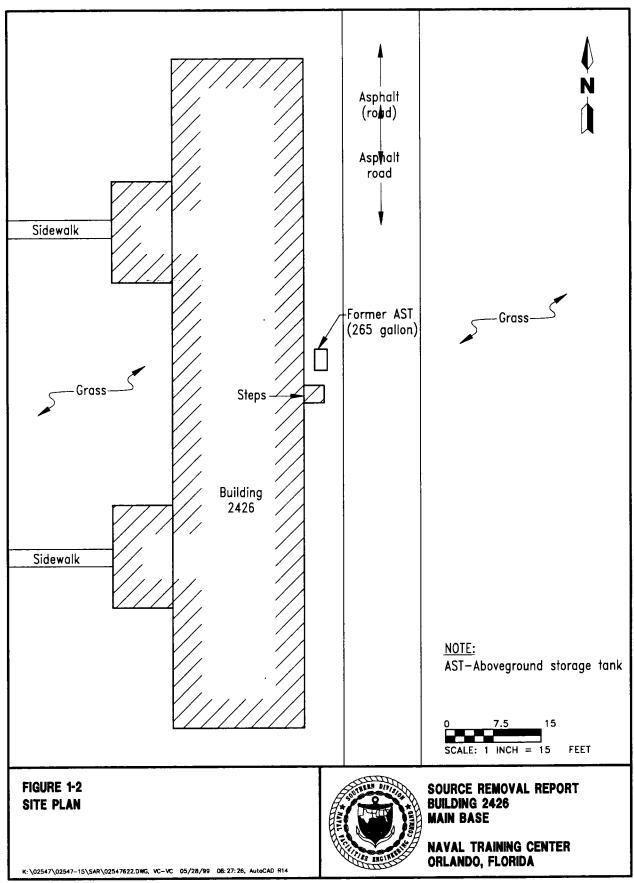
The AST was removed by the Navy Public Works Center (PWC), Pensacola, on November 4, 1996. One temporary monitoring well was installed in the center of the former AST area. Laboratory analytical results showed evidence of petroleum impact to groundwater at levels exceeding State of Florida cleanup target levels. In addition, soil samples were collected from one soil boring completed in the former AST area and screened with an organic vapor analyzer (OVA). Evidence of petroleum impact to soil was detected within the former tank area. Approximately 2 cubic yards (yd 3) of petroleum-impacted soil was removed during the tank closure. The Tank Closure Assessment Report for Building 2426 recommended preparation of a site assessment report (SAR) for the site.

A SAR was completed for the site on May 22, 1998. The SAR recommended the removal of petroleum-impacted soil and sampling of groundwater following the soil excavation.

Petroleum-impacted soil excavation activities were conducted on February 25, 1999. This report summarizes activities associated with the removal of petroleum-impacted soil at Building 2426. Prior to conducting the SRAs, HLA informed the Florida Department of Environmental Protection of the planned removal through information provided during the Orlando Partnering Team meeting.



NTCB2426.SF PMW.05.99



NTCB2426.SRR PMW.05.99

- $\underline{1.2}$ SCOPE OF WORK. The scope of work performed during the SRA included the following tasks:
 - · documented the excavation of petroleum-impacted soil,
 - conducted environmental sampling (OVA screening) to determine the extent
 of excessively contaminated soil to be transported to a stationary
 thermal treatment facility,
 - installation of a temporary groundwater monitoring well in the excavated area,
 - obtained and analyzed a groundwater sample from the temporary monitoring well in the excavated area to assess petroleum-impact to the groundwater, and
 - prepared a Source Removal Report (SRR) describing all field activities, providing the supplemental information and recommendations for the site.

2.0 FIELD ACTIVITIES

- $\underline{2.1}$ TANK CLOSURE. The AST was removed by the Navy PWC, Pensacola, on November 4, 1996. Evidence of petroleum impact to soil was detected within the former tank area. Approximately 2 yd 3 of petroleum-impacted soil were removed.
- 2.2 SOIL EXCAVATION. The SRA was conducted on February 25, 1999. Petroleum-impacted soil that exhibited corrected organic vapor readings of 50 parts per million or greater was excavated as excessively contaminated soil.

The excavation was terminated at approximately eight feet below land surface (bls). Figure 2-1 shows the excavated area and soil sample locations collected during the SRA. Photographs of the SRAs are included in Attachment A.

An OVA equipped with portable flame ionization detector (Foxboro-128) was used to screen soil samples during the excavation. A grid pattern was used to mark the soil sample locations (Figure 2-1). Organic vapor measurements of soil sample headspace were performed in samples collected from depths of 2, 4, and 6 feet bls following guidelines established in Chapter 62-770.200, Florida Administrative Code (FAC). Organic vapor concentration readings corresponding to the sample locations and depth intervals for February 25, 1999, are summarized in Table 2-1.

The excavated soil was placed on and covered with thick plastic, stockpiled onsite, then transported to Soil Treatment Services, Inc. of Kissimmee for thermal treatment. Approximately 52.7 tons (37.1 yd^3) of excessively contaminated soil was excavated from the site.

2.3 TRANSPORT AND DISPOSAL OF SOIL. Preburn composite soil samples were collected by Tetra Tech NUS, Inc. from the site for laboratory analysis prior to excavating the site. Preburn soil samples were composited from soil samples collected at different depth intervals. Soil samples were delivered to AccuTest Analytical Laboratories in Orlando, Florida, and analyzed for volatile organic aromatics (VOAs) (U.S. Environmental Protection Agency [USEPA] Method 8021), polynuclear aromatic hydrocarbons (PAHs) (USEPA Method 8310), total recoverable petroleum hydrocarbons (TRPH) using the Florida-Petroleum Residual Organics (FL-PRO) method and eight Resource Conservation and Recovery Act metals. Preburn laboratory analytical reports are included in Attachment B.

The petroleum-impacted soil was transported to Soil Treatment Services Inc. for thermal treatment. The Certificate of Materials Recycling and Post-Burn Analytical report are included in Attachment C.

2.4 SITE RESTORATION. The excavated was backfilled with clean fill material (light gray, fine sand) to surface grade in order to bring the site to the pre-existing grade (see photographs in Attachment A).

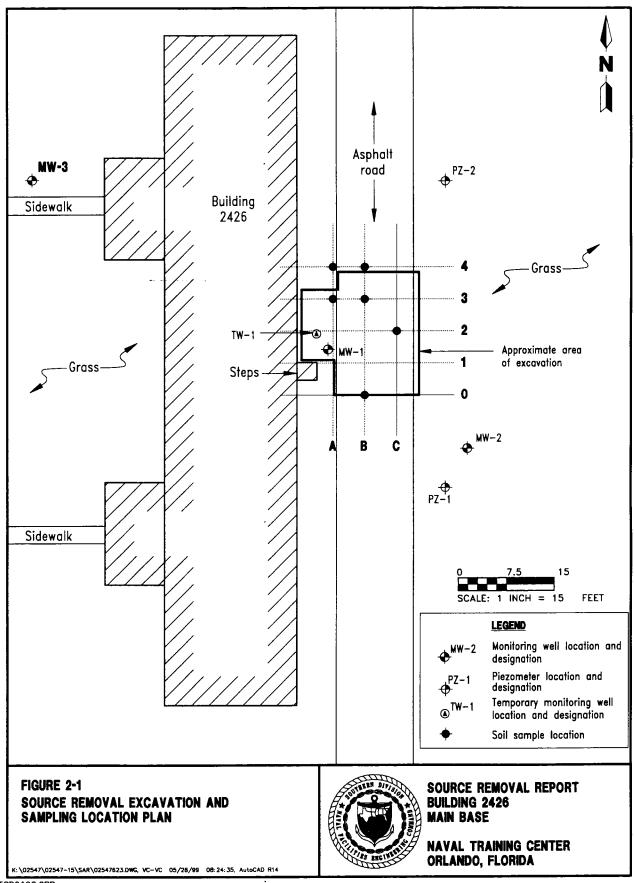


Table 2-1 Summary of Organic Vapor Analysis, February 25, 1999

Source Removal Report Building 2426, Main Base Naval Training Center Orlando, Florida

Soil Sample	Sample Depth (feet bis)	Unfiltered¹ (ppm)	Filtered ² (ppm)	Total Hydrocarbons (ppm)	Physical Observations
	2	<1.0	<1.0	< 1.0	
A3	4	25	5.0	20	
	6	80	15	65	strong petroleum odor
	2	< 1.0	< 1.0	< 1.0	
A4	4	45	5.0	40	
	6	230	20	210	strong petroleum odor
В0	6	< 1.0	< 1.0	< 1.0	
	2	< 1.0	< 1.0	< 1.0	
B3	4	25	5.0	20	
	6	80	15	65	strong petroleum odor
	2	< 1.0	< 1.0	< 1.0	
B4	4	45	5.0	40	
	6	230	20	210	strong petroleum odor
C2	6	< 1.0	< 1.0	<1.0	

¹ Unfiltered sample readings are for total hydrocarbons, including methane.

Groundwater encountered approximately eight feet below ground surface.

Notes: <1 ppm indicates the nondetectable limit for Foxboro-128.

bls = below land surface.

ppm = parts per million.

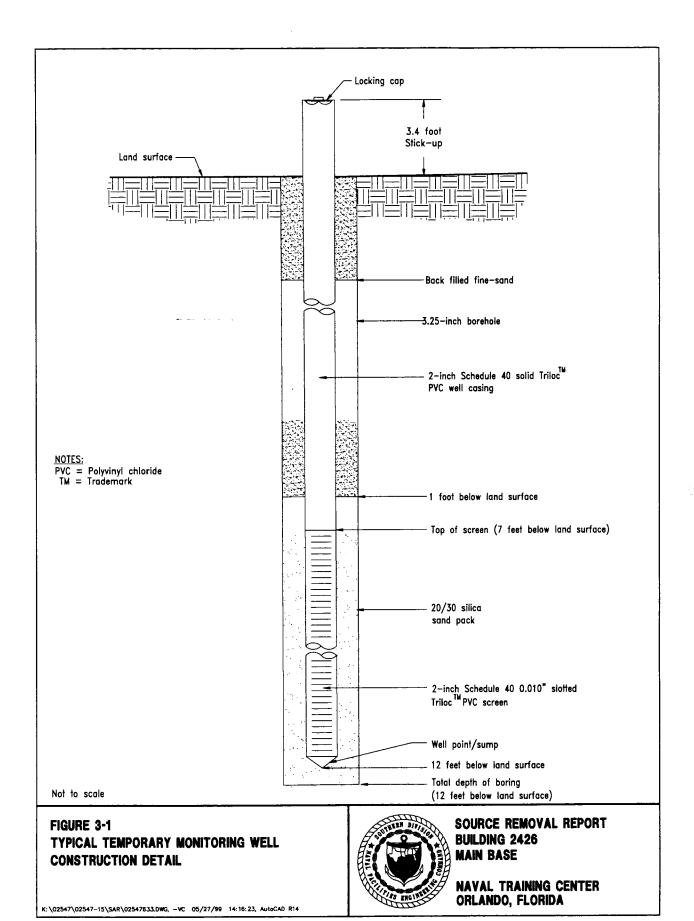
< = less than.

² Filtered sample readings are for methane only.

3.0 GROUNDWATER SAMPLING AND ANALYSIS

- 3.1 TEMPORARY WELL INSTALLATION. On April 21, 1999, one temporary monitoring well (TW-lA) was installed in the center of the former excavation after previous attempts to install a micro-well had failed. A stainless steel hand-auger was used to advance the borehole to approximately twelve feet bls. TW-lA was constructed using a ten foot section of 2.0-inch diameter, schedule 40 polyvinyl chloride (PVC) riser and a five foot section of 0.010-inch slot PVC well screen. The space between the screen and the borehole was filled with fine-sand and native soils. The well was developed using a peristaltic pump until the groundwater was sediment free. Construction details for TW-lA are shown on Figure 3-1.
- 3.2 GROUNDWATER SAMPLING AND ANALYSIS. On April 22, 1999, groundwater samples were collected from TW-1A. The groundwater samples were packed on ice and shipped to Savannah Laboratories, Inc. of Savannah, Georgia to be analyzed for volatile halocarbons (USEPA Method 601), VOAs (USEPA Method 602), TRPH (FL-PRO method), PAHs (USEPA Method 8310), 1,2-dibromoethane (EDB) (USEPA Method 504) and lead (USEPA Method 239.2).

Laboratory analytical results indicate several contaminant concentrations above laboratory detection limits in TW-1A, but below Chapter 62-770, FAC, Groundwater Cleanup Target Levels. Ethylbenzene was detected at 1.3 micrograms per liter $(\mu g/\ell)$, total xylenes was reported at 5.4 $\mu g/\ell$, naphthalene was reported at 2.7 $\mu g/\ell$, and 1- and 2-methylnaphthalene were reported at 5.8 $\mu g/\ell$ and 3.9 $\mu g/\ell$, respectively. Groundwater sampling forms are included in Appendix D. The laboratory analytical report is included in Appendix E.



NTCB2426.SRR PMW.05.99

4.0 CONCLUSIONS AND RECOMMENDATIONS

On February 25, 1999, SRAs were conducted at Building 2426, Main Base, NTC, Orlando. A total of 52.7 tons of petroleum-impacted soil were excavated and transported to Soil Treatment Service Inc. for thermal treatment. Following excavation of the soil and back filling of the excavated area, a temporary monitoring well(TW-lA) was installed and sampled to assess the impact to the groundwater. Laboratory analytical results reported concentrations of contaminants above laboratory detection limits, but below Chapter 62-770, FAC, Groundwater Cleanup Target Levels. Based upon the groundwater laboratory analytical results, removal of the petroleum-impacted soil and information provided in the SAR for Building 2426 (ABB-ES,1998), HLA recommends a No Further Action Proposal for the site.

5.0 PROFESSIONAL REVIEW CERTIFICATION

This document, Source Removal Report, Building 2426, McCoy Annex, Naval Training Center, Orlando, Florida, has been prepared under the direction of a Professional Geologist registered in the State of Florida. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. assessment is based on the geologic investigation and associated information detailed in the text and appended to this report or referenced in public literature. Recommendations are based upon interpretations of the applicable regulatory requirements, guidelines, and relevant issues discussed with regulatory personnel during the site investigation. If conditions that differ from those described that are determined to exist, the undersigned geologist should be notified to evaluate the effects of any additional information on this assessment or the recommendations made in this report. This report meets the criteria set forth in Chapter 492 of the Florida Statutes with regard to good professional practices as applied to Chapter 62-770, FAC. This SRR was developed for the Building 2426 site at the McCoy Annex, NTC, Orlando, in Orlando, Florida, and should not be construed to apply to any other site.

Manuel Alonso

Professional Geologist

P.G. No. 0001256

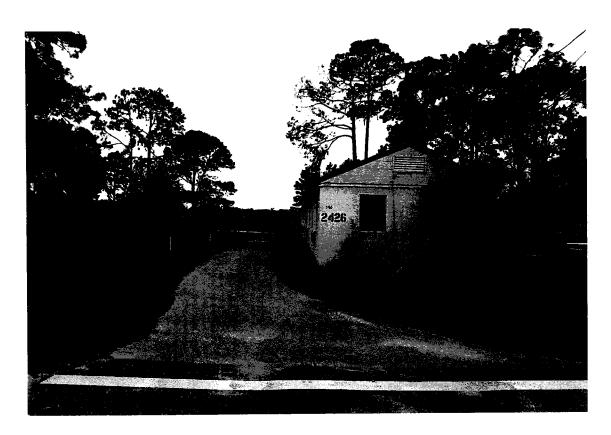
6/1/99

Date

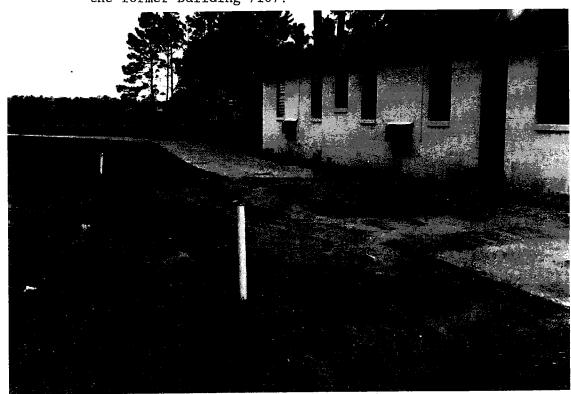
REFERENCE

ABB Environmental Services, Inc. 1998. Site Assessment Report, Building 2426, Main Base Naval Training Center, Orlando, Florida. Prepared for Southern Division, Naval Facilities Engineering command, North Charleston, South Carolina (May).

ATTACHMENT A
PHOTOGRAPHS



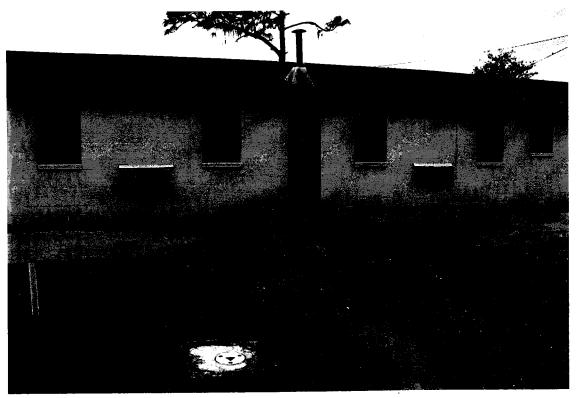
Photograph 1: Concrete material observed in the excavation associated with the former Building 7107.



Photograph 2: View of the capped and abandoned water line pipe encountered during the soil excavation.



Photograph 3: Stockpiled contaminated soil covered with plastic material.



Photograph 4: Building 7107 excavation area after backfill.

ATTACHMENT B PREBURN LABORATORY ANALYTICAL REPORTS



Tetra Tech, NUS

NTC Orlando

7781/CTO-0050

Accutest Job Number: F3661

Report to:

Tetra Tech, NUS 800 Oak Ridge Tumpike Suite A-600 Oak Ridge, TN 37830

ATTN: Mike Campbell

Total number of pages in report:

Harry Behzadi, Ph.D. Laboratory Director

Results relate only to the items tested.

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.



Sample Summary

Tetra Tech, NUS

Date:

02/17/99

Job No:

F3661

NTC Orlando Project No: 7781/CTO-0050

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
F3661-1	02/11/99	07:55 PC	02/11/99	SO	Soil	7241-SB01-0304
F3661-2	02/11/99	13:35 PC	02/11/99	SO	Soil	7151-SB12-0506
F3661-3	02/11/99	14:45 PC	02/11/99	SO	Soil	2273-SB01
F3661-4	02/11/99	15:20 PC	02/11/99	SO	Soil	2426-SB01-0304



Client Sample ID: 2426-SB01-0304

Lab Sample ID:

F3661-4

Matrix:

SO - Soil SW846 8260B

Method: Project:

NTC Orlando

Date Sampled: 02/11/99

Date Received: 02/11/99

Percent Solids: 92.1

	File ID	DF	Analyzed	Вy	Prep Date	Prep Batch	Analytical Batch
Run #1 a	K002682.D	50	•	RAW	n/a	n/a	VK46

Run #2

VOA 8021 List

CAS No.	Compound	Result	RDL	Units Q
71-43-2	Benzene	ND	120	ug/kg
75-27-4	Bromodichloromethane	ND	120	ug/kg
75-25-2	Bromoform	ND	120	ug/kg
108-90-7	Chlorobenzene	ND	120	ug/kg
75-00-3	Chloroethane	ND	120	ug/kg
67-66-3	Chloroform	ND	120	ug/kg
110-75-8	2-Chloroethyl vinyl ether	ND	120	ug/kg
56-23-5	Carbon tetrachloride	ND	120	ug/kg
75-34-3	1,1-Dichloroethane	ND	120	ug/kg
75-35-4	1,1-Dichloroethylene	ND	120	ug/kg
106-93-4	1,2-Dibromoethane	ND	120	ug/kg
107-06-2	1.2-Dichloroethane	ND	120	ug/kg
78-87-5	1,2-Dichloropropane	ND	120	ug/kg
124-48-1	Dibromochloromethane	ND	120	ug/kg
75-71-8	Dichlorodifluoromethane	ND	120	ug/kg
156-59-2	cis-1,2-Dichloroethylene	ND	120	ug/kg
10061-01-5	cis-1,3-Dichloropropene	ND	120	ug/kg
541-73-1	m-Dichlorobenzene	ND	120	ug/kg
95-50-1	o-Dichlorobenzene	ND	120	ug/kg
106-46-7	p-Dichlorobenzene	ИD	120	ug/kg
156-60-5	trans-1,2-Dichloroethylene	ND	120	ug/kg
10061-02-6	trans-1,3-Dichloropropene	ND	120	ug/kg
100-41-4	Ethylbenzene	ND	120	ug/kg
74-83-9	Methyl bromide	ND	300	ug/kg
74-87-3	Methyl chloride	ND	300	ug/kg
75-09-2	Methylene chloride	ND	300	ug/kg
1634-04-4	Methyi Tert Butyl Ether	ND	120	ug/kg
71-55-6	1,1,1-Trichloroethane	ND	120	ug/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	120	ug/kg
79-00-5	1,1,2-Trichloroethane	ND	120	ug/kg
127-18-4	Tetrachloroethylene	ND	120	ug/kg
108-88-3	Toluene	ИD	120	ug/kg
79-01-6	Trichloroethylene	ND	120	ug/kg
75-69-4	Trichlorofluoromethane	ND	120	ug/kg
75-01-4	Vinyl chloride	ND	300	ug/kg
1330-20-7	Xylene (total)	ND	360	ug/kg

ND = Not detected

RDL = Reported Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 2 of

Client Sample ID: 2426-SB01-0304

Lab Sample ID:

F3661-4

SO - Soil

Matrix: Method:

SW846 8260B

Date Sampled: 02/11/99

Date Received: 02/11/99

Project:

NTC Orlando

Percent Solids: 92.1

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1 a	K002682.D	50	02/15/99	RAW	n/a	n/a	VK46

Run #2

VOA 8021 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromotluoromethane	102%		80-120%
2037-26-5	Toluene-D8	96%		81-117%
460-00-4	4-Bromorluorobenzene	106%		74-121%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%

(a) Dilution required due to matrix interference.

ND = Not detected

RDL = Reported Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

Page 1 of 1

Client Sample ID: 2426-SB01-0304

Lab Sample ID:

F3661-4

Matrix:

SO - Soil

Method: Project:

SW846 3550B/8270C

NTC Oriando

Date Sampled: 02/11/99

Date Received: 02/11/99

Percent Solids: 92.1

						_
	File ID	DF	Analyzed	By	Prep Date	F
Run #1 a	L001099.D	4	02/12/99	NF	02/12/99	C

Run #2

Analytical Batch Prep Batch OP680 SL70 02/12/99

BN PAH List

CAS No.	Compound	Result	RDL	Units Q
83-32-9	Acenaphthene	841	720	ug/kg
208-96-8	Acenaphthylene	ND	720	ug/kg
120-12-7	Anthracene	ND	720	ug/kg
56-55-3	Benzo(a)anthracene	ND	720	ug/kg
50-32-8	Benzo(a)pyrene	ND	360	ug/kg
205-99-2	Benzo(b)fluoranthene	ND	720	ug/kg
191-24-2	Benzo(g,h,i)perylene	ND	720	ug/kg
207-08-9	Benzo(k)fluoranthene	ND	720	ug/kg
218-01-9	Chrysene	ND	720	ug/kg
53-70-3	Dibenzo(a,h)anthracene	ND	360	ug/kg
206-1-1-0	Fluoranthene	ND	720	ug/kg
86-73-7	Fluorene	1030	720	ug/kg
193-39-5	Indeno(1,2,3-cd)pyrene	ND	720	ug/kg
90-12-0	1-Methylnaphthalene	ND	720	ug/kg
91-57-6	2-Methylnaphthalene	ND	720	ug/kg
91-20-3	Naphthalene	ND	720	ug/kg
85-01-8	Phenanthrene	561	720	ug/kg J
129-00-0	Pyrene	2890	720	ug/kg
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	82%		25-121%
4165-62-2	Phenol-d5	86%		24-113%
118-79-6	2,4,6-Tribromophenol	78%		19-122%
4165-60-0	Nitrobenzene-d5	119%		23-120%
321-60-8	2-Fluorobiphenyl	78%		30-115%
1718-51-0	Terphenyl-d14	98%		18-137%

⁽a) Dilution required due to matrix interference.

ND = Not detected

RDL = Reported Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 2426-SB01-0304

Lab Sample ID:

F3661-4

Matrix: Method: SO - Soil

FLORIDA-PRO

DF

25

Date Sampled: 02/11/99

Date Received: 02/11/99 Percent Solids: 92.1

Project:

NTC Orlando

Prep Batch Analytical Batch OP683

Run #1 Run #2

File ID

P03270.D

Resuit

Analyzed

02/17/99

RDL

Units Q

Prep Date

02/16/99

GOP157

CAS No.

Compound

TPH (C8-C40)

8890

2300

By

SKW

mg/kg

CAS No.

Surrogate Recoveries

Run#1 Run#2 Limits

84-15-1

o-Terphenyl

0% 1

40-140%

(a) Outside control limits due to dilution.

ND = Not detected

RDL = Reported Detection Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method bla



Page 1 of 1

Client Sample ID: 2426-SB01-0304

Lab Sample ID:

F3661-4

SO - Soil

Date Sampled: 02/11/99

Percent Solids: 92.1

Date Received: 02/11/99

Project:

Matrix:

NTC Orlando

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By	y Method
Arsenic	0.32 B	1.1	mg/kg	1	02/15/99	02/17/99 лк	SW846 6010A
Barium	13.9 B	21.7	mg/kg	1	02/15/99	02/17/99 лк	SW846 6010A
Cadmium	0.02 B	0.43	mg/kg	1	02/15/99	02/17/99 јк	SW846 6010A
Chromium	2.0	1.1	mg/kg	1	02/15/99	02/17/99 јк	SW846 6010A
Lead	7.0 B	- 10.9	mg/kg	1	02/15/99	02/17/99 јк	SW846 6010A
Mercury	0.045 U	0.045	mg/kg	1	02/16/99	02/16/99 JK	SW846 7471A
Selenium	0.34 U	10.9	mg/kg	1	02/15/99	02/17/99 лк	SW846 6010A
Silver	0.09 U	1.1	mg/kg	1	02/15/99	02/17/99 лк	A0106 648W2



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15 ORLANDO, FL 32811 TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:	
ACCUTEST QUOTE #:	

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Paul C	CLIENT INFORT	Inc. or Dr., # 220 	O O ZIP	PROJECT I	orland NAME NO. 1 1 / CTO	CL 0 -008 6 - 740	7 50	l in			/ATIOI	- N S	LAA MO	4 (Encore samplers)								DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID
ACCUTEST SAMPLE #	FIELD ID / PO	INT OF COLLECTION	ON	DATE		SAMPLED BY:	MATRIX	0 0 E	ij ğ	EO PE	NONE	ز	7 9	08			_		_	_		LAB USE ONLY
3661.V -2 -3 4	7241 - 380 7151 - 381; 2273 - 50 2426 - 580	2-0506		2·11·99 2·11·99 2·11·99 2·11·99	1445	P.C.	\$ \$ \$	5 5 5						3 3 3								
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ATTACHMENT C

POSTBURN LABORATORY ANALYTICAL REPORTS AND CERTIFICATE OF MATERIALS RECYCLING





99-133

Soil Analysis Report

Lab Control Number: 18546

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From:

Soil Treatment Services

3505 Pugmill Road Kissimmee, FL 34741

Sample Name:

March 8, 1999 Composite #1

Date Received:

March 12, 1999

Date Reported:

March 18, 1999

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Total Petroleum Hydrocarbons	FI-Pro	mg/kg	1.0	3/18/99	КВ	24.1
Arsenic	7061	mg/kg	0.4	3/15/99	KB	<0.4
Barium	7080	mg/kg	0.025	3/15/99	KB	3.0
Cadmium	7131	mg/kg	0.05	3/15/99	KB	0.4
Chromium	7191	mg/kg	0.1	3/15/99	KB	1.70
Lead	7421	mg/kg	0.05	3/15/99	KB	5.5
Mercury	7471	mg/kg	0.001	3/15/99	KB	<0.001
Selenium	7740	mg/kg	0.5	3/15/99	KB	<0.5
Silver /	7760	mg/kg	0.05	3/15/99	KB	0.56
Methyl-tert-butyl-ether	8021	ug/kg	1.4	3/15/99	KB	<1.4
Benzene	8021	ug/kg	0.9	3/15/99	KB	<0.9
Toluene	8021	ug/kg	0.7	3/15/99	КВ	<0.7
Chlorobenzene	8021	ug/kg	1.7	3/15/99	KB	<1.7
Ethyl benzene	8021	ug/kg	0.8	3/15/99	КВ	<0.8
m & p-Xylene	8021	ug/kg	1.6	3/15/99	- KB	<1.6
o-Xylene	8021	ug/kg	0.8	3/15/99	KB	<0.8
m-Dichlorobenzene	8021	ug/kg	1.6	3/15/99	KB	<1.6
p-Dichlorobenzene	8021	ug/kg	1.6	3/15/99	KB -	<1.6
o-Dichlorobenzene	8021	ug/kg	1.6	3/15/99	KB	<1.6
Total BTEX	8021	ug/kg	n/a	3/15/99	KB	<0.7

Data Release Authorization

The sample integrity and reliability was verified by Laboratory personnel prior to analysis. Analysis method used
are in accordance with F.A.C. 62-160 and applicable EPA protocols. Laboratory Quality Assurance is in
accordance with Bottorf Associates Comprehensive Quality Assurance Plan No. 910102.

Kent D. Bottorf	Kent D. Botton	3/18/99
Laboratory Director	Signature	Date



Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From:

Soil Treatment Services

Lab Control Number: 18546

3505 Pugmill Road Kissimmee, FL 34741

Sample Name:

March 8, 1999 Composite #1

Date Received:

March 12, 1999

Date Reported: March 18, 1999

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Dichlorodiflouroethane	8021	ug/kg	1.2	3/15/99	КВ	<1.2
Bromomethane	8021	ug/kg	1.7	3/15/99	кв	<1.7
Chloroethane	8021	ug/kg	2.5	3/15/99	КВ	<2.5
1,1-Dichloroethene	8021	ug/kg	1.3	3/15/99	КВ	<1.3
Methylene Chloride	8021	ug/kg	1.3	3/15/99	КВ	<1.3
trans 1,2-Dichloroethylene	8021	ug/kg	1.1	3/15/99	КВ	<1.1
1,1-Dichloroethane	8021	ug/kg	1.3	3/15/99	КВ	<1.3
Chloroform	8021	ug/kg	1.0	3/15/99	КВ	<1.0
1,1,1-Trichlorethane	8021	ug/kg	1.3	3/15/99	КВ	<1.3
Carbon Tetrachloride	8021	ug/kg	1.1	3/15/99	KB	<1.1
Trichloroethylene	8021	ug/kg	1.8	3/15/99	KB	<1.8
1,2-Dichloropropane	8021	ug/kg	1.5	3/15/99	KB	<1.5
Bromodichloromethane	8021	ug/kg	9.0	3/15/99	КВ	<9.0
cis 1,3-Dichloropropane	8021	ug/kg	1.2	3/15/99	KB	<1.2
trans 1,3-Dichloropropane	8021	ug/kg	1.4	3/15/99	. KB	<1.4
1-Chloro 2-Bromomethane	8021	ug/kg	1.2	3/15/99	KB	<1.2
1,1,2-Trichloroethane	8021	ug/kg	1.3	3/15/99	KB	<1.3
Tertrachloroethylene	8021	ug/kg	1.1	3/15/99	КВ	<1.1
Dibromochloromethane	8021	ug/kg	1.1	3/15/99	КВ	<1.1
1,2-Dibromomethane	8021	ug/kg	1.4	3/15/99	КВ	<1.4
Chiorobenzene	8021	ug/kg	3.8	3/15/99	KB	<3.8
1,1,1,2-Tetrachloroethane	8021	ug/kg	1.3	3/15/99	KB	<1.3



Soil Analysis Report

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From:

Soil Treatment Services

3505 Pugmill Road Kissimmee, FL 34741 Lab Control Number: 18546

Sample Name:

March 8, 1999 Composite #1

Date Received:

March 12, 1999

Date Reported:

March 18, 1999

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Bromoform	8021	ug/kg	1.2	3/15/99	KB	<1.2
1,1,2,2-Tetrachlorethane	-8021	ug/kg	1.0	3/15/99	KB	<1.0
1,2,3-Trichloropropane	8021	ug/kg	5.7	3/15/99	KB	
Bromobenzene	8021	ug/kg	1.1	3/15/99	KB	<5.7
4-Chlorotoluene	8021	ug/kg	1.4	3/15/99	KB	<1.1
m-Dichlorobenzene	8021	ug/kg	2.6	3/15/99	T	<1.4
p-Dichlorobenzene	8021	ug/kg	2.5	3/15/99	KB	<2.6
o-Dichlorobenzene	8021	ug/kg	2.8		KB	<2.5
Total VOH	8021	ug/kg	n/a	3/15/99	KB	<2.8
8021 Dilution Factor	8021	x	n/a	3/15/99	KB	<9.0
Acenaphthene	8100	ug/kg	5.0	n/a	n/a	1
Acenapthylene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Anthracene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Benzo(a)anthracene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Benzo(a)pyrene	8100	ug/kg		3/15/99	KB	<5.0
Benzo(b)fluoranthene	8100		5.0	3/15/99	KB	<5.0
Benzo(ghi)perylene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Benzo(k)fluoranthene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Chrysene		ug/kg	5.0	3/15/99	KB	<5.0
Dibenzo(a,h)anthracene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Fluoranthene	8100	ug/kg	5.0	3/15/99	KB	<5.0
luorene	8100	ug/kg	5.0	3/15/99	KB	<5.0
luorene	8100	ug/kg	5.0	3/15/99	KB	<5.0



Soil Analysis Report

Lab Control Number: 18546

6729 Edgewater Commerce Parkway · Orlando, Florida · 32810-4278 · Phone 407 298-0846 · Fax: 407 299-7053

Sample Received From:

Soil Treatment Services

3505 Pugmill Road Kissimmee, FL 34741

Sample Name:

March 8, 1999 Composite #1

Date Received: Date Reported:

March 12, 1999 March 18, 1999

Parameter	Analysis Method	Reporting Units	Method Detection Limit	Analysis Date	Analyst	Result
Indeno(1,2,3-cd)pyrene	8100	ug/kg	5.0	3/15/99	КВ	<5.0
Naphthalene	8100	ug/kg	5.0	3/15/99	КВ	<5.0
Phenanthrene	· 8100	ug/kg	5.0	3/15/99	KB	<5.0
Pyrene	8100	ug/kg	5.0	3/15/99	KB	<5.0
Total PAH	8100	ug/kg	n/a	n/a	n/a	<5.0
8100 Dilution Factor	8100	х	n/a	n/a	n/a	1

ATTACHMENT D GROUNDWATER SAMPLING FORM



FDEP FACILITY NO.:

DEP Form # 62-770.900(3)

Form Title: Petroleum or Petroleum Products

Water Sampling Log

Effective Date: September 23, 1997

DATE:4/22/99

Petroleum or Petroleum Products Water Sampling Log

SAMPLE ID:078GT101

WELL NO.: TW-1

SITE NA	SITE NAME: NTC ORLANDO – MAIN BASE SITE LOCATION: BUILDING 2426											
					PURGI	E DAT.	A		.			
WELL DIAMETER (in): 2 TOTAL WELL DEPTH (ft): 11.95						DEPTH WATER	TO (ft): 11.01		WELL CAPACITY (gal/ft): 0.16			
1 WELL V	OLUME (gal		L WELL DE 11.01) x 0.1		PTH TO WATE	ER) x WI	ELL CAPACITY =					
PURGE METHOD:	PERISTAL	TIC PUMP			PURGING INITIATED A	AT: 10:47			PURGING ENDED AT: 11:15			
WELL	CUMUL. VOLUME				PURGE RATE (gpm):	0.09		TOTA PURG	ALLONS			
VOLS. PURGED	PURGED (gal)	рН	TEMP. (°C)	COND. (µmhos)	COLO	R	ODOR	AP	PEARANCE	TURBIDITY		
INT	INT	6.83	24.6	600						>200		
3.3	0.5	6.84	24.1	625						>200		
8.33	1.25	6.62	24.1	600						>200		
13.3	2.0	6.39	23.9	600					-	198.9		
16.7	2.5	6.43	23.9	600						194.7		
									······································	<u> </u>		

AMPI	LED BY /			_		SAMPLER(S)						
AFFIL	IATION CHRIS	PISARRI AND	MANUEL AI	LONSO		SIGNATURE(S)						
SAMPI METH	LING OD(S): PERISTA	ALTIC PUMP							SAMPLING ENDED AT: 11:45			
	FIELD DECONT	TAMINATION:	: N		FIELD-FII	TERED: N			DUPLICATE: N			
SAMPLE CONTAINER SPECIFICATIONS SAMPLE PRESE						VATION			INTENDED ANALYSIS			
NO.	MATERIAL CODE	VOLUME	PRESERVA USED			VOLUME i FIELD (ml)	FINAL pH	AND/OR METHOD				
	CG							601/602				
	CG							504 ED	В			
	AG						ŀ	FL-PR	0			
	AG							8310				
	O-PLASTIC							PB 239	.2			

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; HDP = HIGH DENSITY POLYETHYLENE; O = OTHER (SPECIFY)
WELL CAPACITY: 1.25" = 0.06 gal/ft; 2" = 0.16 gal/ft; 4" = 0.65 gal/ft; 6" = 1.47 gal/ft; 8" = 2.61 gal/ft; 12" = 5.88 gal/ft

NOTE: this does not constitute all the information required by Chapter 62-160, F.A.C.

ATTACHMENT E

GROUNDWATER LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY RECORDS

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

Received: 23 APR 99 Reported: 11 MAY 99

Mr. Chris Pisarri Harding Lawson Associates 1080 Woodcock Road Orlando, FL 32803

Client PO. No.: NE753107G

Requisition: RFP#ATQ97-031

Contract No.: N62467-89-D-0317

Project: NTC Orlando-354/2547-06/SDG#ABOR33/Bldg 2426

Sampled By: Client

Code: 115690511

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION . LIO	ORT OF RESULTS	DATE/ TIME SAMPLED SDG#
12609-1	TW-1 078GT101		04-22-99/40500 ABOR33
COMPAN AND THE		12609-1	
Bromodic Bromofor Bromomet Carbon t Chlorobe Chlorofo Chlorofo Chlorome Dibromoc 1,2-Dich	hane, ug/l etrachloride, ug/l mzene, ug/l hañe, ug/l	1.0U 5.0U 1.0U 1.0U 1.0U 1.0U 1.0U 1.0U	
Dichlord 1,1-Dich 1,2-Dich 1,1-Dich Cis/Trar 1,2-Dich cis-1,3- trans-1, Methyler	nlorobenzene, ug/l pdifluoromethane, ug/l ploroethane, ug/l ploroethane, ug/l ploroethane, ug/l ploroethene, ug/l ploroethene, ug/l ploropropane, ug/l	1.00	

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: \$9-12609

Received: 23 APR 99

Reported: 11 MAY 99

Mr. Chris Pisarri Harding Lawson Associates

1080 Woodcock Road Orlando, FL 32803 Client PO. No.: NE753107G

Requisition: RFP#ATQ97-031

Contract No.: N62467-89-D-0317

Project: NTC Orlando-354/2547-06/SDG#ABOR33/Bldg 2426

Sampled By: Client

Code: 115690511

REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPL	DATE/ ES TIME SAMPLED SDG#
12609-1	TW-1 078GT101	04-22-99/40500 ABOR33
CHTCMACCACC		15003-7
Tetrachlo 1,1,1-Tri 1,1,2-Tri Trichloro Trichloro Vinyl chl	proethene, ug/l chloroethane, ug/l chloroethane, ug/l chloroethane, ug/l cethylene, ug/l cethylene, ug/l coride, ug/l cer Bromochloromethane	1.00 1.00 1.00 1.00 1.00 1.00 84 %
Benzene, Toluene, Ethylben: Total Xy. Methyl to	Aromatics (602) ug/l ug/l zene, ug/l lenes, ug/l ert-butyl ether (MTBE), ug/l e - a,a,a-Trifluorotoluene	1.0 1.0U 1.0U 1.3 5.4 10U 97 % 04.29.99
Dilution Batch ID		1.0 1B0429A

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: \$9-12609 Received: 23 APR 99 Reported: 11 MAY 99

Mr. Chris Pisarri Harding Lawson Associates

1080 Woodcock Road Orlando, FL 32803 Client PO. No.: NE753107G

Requisition: RFP#ATQ97-031

Contract No.: N62467-89-D-0317

Project: NTC Orlando-354/2547-06/SDG#ABOR33/Bldg 2426

Sampled By: Client

Code: 115690511 Page 3

REPORT OF RESULTS

DATE/

LOG NO	SAMPLE DESCRIPTION , LIQUID &	DATE/ AMPLES TIME SAMPLED SDG#
12609-1	TW-1 078GT101	04-22-99/40500 ABOR33
PARAMETER	•	12609-1
Polymucles	ar Aromatics (8310)	
	hene, ug/l	1.00
_	hylene, ug/l	1.00
Anthrace	-	0.200
_	anthracene, ug/1	0.200
	pyrene, ug/l	0.200
	fluoranthene, ug/l	0.200
	h,i)perylene, ug/l	0.50U
	fluoranthene, ug/l	0.200
Chrysene		0.200
	a,h)anthracene, ug/l	0.20U
	hene, ug/l	0.500
Fluorene		0.500
	,2,3-cd)pyrene, ug/l	0.200
	ene, ug/l	2.7
	rene, ug/l	0.21X
Pyrene,	•	0.500
	naphthalene, ug/l	5.8
	naphthalene, ug/l	3.9
	e - Terphenyl - d14	88 🗣
Date Ext	▼ =	04.27.99
Date Ana		04.29.99
Dilution	-	1.0
Batch ID		0 427 J
Instrume		LCAUV
	Volume/Weight	1000
Final Ex	rtraction Volume (FV1)	1.0

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: 59-12609 Received: 23 APR 99

Reported: 11 MAY 99

Mr. Chris Pisarri Harding Lawson Associates 1080 Woodcock Road Orlando, FL 32803

Client PO. No.: NE753107G

Requisition: RPP#ATQ97-031

Contract No.: N62467-89-D-0317

Project: NTC Orlando-354/2547-06/SDG#ABOR33/Bldg 2426

Sampled By: Client

Code: 115690511

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED	
12609-1	TW-1 078GT101		04-22-99/40500	ABOR33
PARAMETER		12609-1		
Lead (239				
Lead, mg	_I /1	0.00500		
	cion Date	04.26.99		
Date Ana		05.01.99		
Dilution		1.0		
Batch II		0426J		
Petroleum	n Range Organics (FL-PRO)			
Petroleu	m Range Organics (FL-PRO), mg/l	0.300		
	te - O-Terphenyl (OTP)	47 %		
_	n factor	1.0		
Date Ext	tracted	04.27.99		
Date Ana	alyzed	05.06.99		
Batch II	o	0427U		
Initial	Volume/Weight	1000		
Final B	xtraction Volume (FV1)	2.0		
Microext	ractables (504.1)			
1,2-Dib	romoethane (RDB), ug/l	0.0200		
	romo-3-chloropropane, ug/l	0.0200		
Date Ex		04.27.99		
Date An		04.28.99		
	Volume/Weight	39		
	xtraction Volume (FV1)	2.0		

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404
[] 2846 Industrial Plaza Drive, Tallahassee, FL 32301
[] 1414 SW 12th Avenue, Deerfield Beach, FL 33442
[] 900 Lakeside Drive, Mobile, AL 36693
[] 6712 Benjamin Road, Suite 100, Tampa, FL 33634

[] 100 Alpha Drive, Suite 110, Destrehan, LA 70047

Phone: (912) 354-7858 Fax: (912) 352-0165
Phone: (904) 878-3994 Fax: (904) 878-9594
Phone: (954) 421-7400 Fax: (954) 421-2584
Phone: (813) 885-7427 Fax: (813) 885-7049
Phone: (504) 764-1100 Fax: (504) 725-1163

																			1
PROJECT	REFERENCE	NT	C Orlando	PROJECT NO	.	O NUMBE	R		MA	TRIX									
Bldg	2426	- (Main Base	03547	. 05	NE 79	3107	G		YPE					REDA	VALYSE	S	PAGE	OF
				02547	PHONE (102) Bd fol) Ba	15-81	842	I//		*		10 C S S S S S S S S S S S S S S S S S S	\ <u>`</u>	o/		/ /		
CLIENT NA		ve)	Alouso	CLIENT PROJ	ECT MANA	GER	6 61	رن د	////		% 0	/ (<i>u</i> / ²) Q	Y	/ /			DARD
HL												′ ≫ ∵0/	/		′ /		/ /	/ KIREPO	ÆRY
	DRESS (CIT	Y, STA	TE, ZIP)	John	Varisci	31803	3	15/25/25/25/25/25/25/25/25/25/25/25/25/25			00	6/	3				/ /	EXPEDITE	D REPORT (surcharge)
1080	, w ₀ ,	ه وا ده	ck Rd.	Suite 100	, Or				[§]	-/-	-/	/	/ -	/	-/	1	//-	Date Due.	(sorcharge)
SAM	IPLE	SL					/₹/		Ĭ										
DATE	TIME	NO.	S/	AMPLE IDENT	IFICATIO	N	_{\delta \sqrt{g} \sqrt{g}}	7\$/\$/	/		NUMBE	ROF		AINERS	SUBM	ITTED		REMARK	5
4/22/99	1115		TW-1	OTEGTI	01		X		3	2	3	. 1	2						
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RELINGU	SHED BY)(S	SIGNAT	URE)	204/31	TIME	RELINQUIS	SHED BY:	(SIGNA	(TURE)		DAT	E 1	TIME	REDI	QUISHE WITH	DBY (SIG	NATURE)	DATE 4/22/9	TIME
RECEIVE	DBY (SIGNA	ATURE	Three	DATE	TIME	RECEIVED	BY: (SIGN	NATURI	E)	SEED OF THEFE	DAT	E 1	TIME			GIGNATI		DATE 4/23/14	11ME 9:07
				·	 		LĀ	BOR	ATOR'	YUSE	ONLY				1	/			
RECEIVE	D FOR LABO	RATO	RY BY: (SIGNAT	URE) DATE	TIME		ODY INTA	CT C	USTOD	YSEAL	NO. S	LLOG	NO.	LA	BORATO	DRY REM	ARKS:	•	
D	Vara			4/23/	13 9:0		/ ES 🗌 N	。			5	912	260	9					

NTC ORLANDO, FLORIDA -- MAIN BASE -- BUILDING 2426 GROUNDWATER ANALYTICAL DATA -- REPORT NO. 11096

Lab Sample Number: Site

S912609-1

Locator Collect Date: 2426 TW-1 078GT101 22-APR-99

VALUE

QUAL UNITS

DI.	
υL	

	VALUE	QUAL UNITS	DL .
EPA 601		U ug/l	1
Bromodichloromethane			5
Bromoform		NAME OF TAXABLE PARTY.	1
Bromomethane		7	
Carbon tetrachloride	1		1
Chlorobenzene	1	7 797	1
Chloroethane	1	T. T.	
Chloroform	1		1
Chloromethane	1	U ug/l	
Dibromochloromethane	1	U ug/l	1
1,2-Dichlorobenzene	1		1
1,3-Dichlorobenzene	1		
1,4-Dichlorobenzene	1		1
Dichlorodifluoromethane		U ug/l	1
1,1-Dichloroethane	-	U ug/l	1
1,2-Dichloroethane		U ug/l	1
1,1-Dichloroethene	. 1		1
Cis/Trans-1,2-Dichloroethene	1	U ug/l	1
1,2-Dichloropropane	1	U ug/l	1
cis-1,3-Dichloropropene	1	U ug/l	1
trans-1,3-Dichloropropene		U ug/l	1
Methylene chloride	5	U ug/l	5 1
1,1,2,2-Tetrachloroethane	1	U ug/l	- 1
Tetrachloroethene	1	U ug/l	1
1,1,1-Trichloroethane	1	U ug/l	1
1,1,2-Trichloroethane	1	U ug/l	1
Trichloroethylene	1	U ug/l	1
Trichlorofluoromethane	1	U ug/l	1
Vinyl chloride	1	U ug/l	1
EPA 602			
Benzene	1	U ug/l	1
Toluene		U ug/l	1
Ethylbenzene	1.3	ug/l	1
Xylenes (total)	5.4	ug/l	2
Methyl tert-butyl ether	10		10
Polynuclear Aromatics (8310)			
Acenaphthene	. 1	U ug/l	1
Acenaphthylene		U ug/l	1
Anthracene	. <u>.</u> 2		.2
Benzo(a)anthracene	.2		5
Benzo(a)pyrene	.2		.2 .2
Benzo(b) fluoranthene	.2		៎ភ្នំ
	.5		
Benzo(g,h,i)perylene	 .2		.2 .5 .2 .2
Benzo(k)fluoranthene			٠. ٢
Chrysene	.2		۲.
Dibenzo(a,h)anthracene	.2		.2
Fluoranthene	.5		.5
Fluorene	.5		.5 .2
Ideno(1,2,3-cd)pyrene	.2	U ug/l	.2

NTC ORLANDO, FLORIDA -- MAIN BASE -- BUILDING 2426 GROUNDWATER ANALYTICAL DATA -- REPORT NO. 11096

	Lab	•	Number: Site Locator ct Date:	VALUE	Th	24 1-1 0 22 - 4	2609-1 526 578GT101 APR-99 . UNITS	DL			
Naphthalene	1446				2.7		ug/l		1		
Phenanthrene					21	Χ	ug/l		.2		
Pyrene						U	ug/l		.5		
1-Methylnaphthalene				5	.8		ug/l		1		
2-Methylnaphthalene					.9		ug/l		1		
Microextractables (50	4.1)										
Ethylene dibromide					.02	U	ug/l		.02		
1,2-Dibromo-3-chlor	oprop	ane		•	02	U	ug/l		.02		1
Flo Pro		and a									
Petroleum Range Org	anics	(Fl-P			.3	Ü	mg/l		.3		
Lead				.0	05	U	mg/l		.005		